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\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s method (4a) separat? (5a) nucleic acid?  
3 FILES SEARCHED...

L1 714 METHOD (4A) SEPARAT? (5A) NUCLEIC ACID?

=> s l1 and metal oxide  
L2 28 L1 AND METAL OXIDE

=> s l2 and chaotrop?  
L3 17 L2 AND CHAOTROP?

=> s l3 and detergent  
L4 10 L3 AND DETERGENT

=> s l4 and amplification  
L5 8 L4 AND AMPLIFICATION

=> dup rem l5  
PROCESSING COMPLETED FOR L5  
L6 8 DUP REM L5 (0 DUPLICATES REMOVED)

=> d l6 bib abs 1-8

L6 ANSWER 1 OF 8 USPATFULL on STN  
AN 2005:62905 USPATFULL  
TI Extraction of nucleic acid  
IN Baker, Matthew, Maidstone, UNITED KINGDOM  
Taylor, Matthew, Carterbury, UNITED KINGDOM  
Uppal, Shilpa, Canterbury, UNITED KINGDOM  
PI US 2005053941 A1 20050310  
AI US 2004-496449 A1 20041101 (10)  
WO 2002-GB5209 20021120  
PRAI GB 2001-27809 20011120  
DT Utility  
FS APPLICATION  
LREP DANN, DORFMAN, HERRELL & SKILLMAN, 1601 MARKET STREET, SUITE 2400,  
PHILADELPHIA, PA, 19103-2307  
CLMN Number of Claims: 43  
ECL Exemplary Claim: 1  
DRWN 2 Drawing Page(s)  
LN.CNT 550  
AB Methods of obtaining a sample of target nucleic acid from cells  
containing the target nucleic acid and genomic DNA or RNA are disclosed.

In contrast to prior art protocols, this method does not require the cells containing the target nucleic acid to be lysed and instead is based on the observation when cells are suspended in an aqueous medium and the target nucleic acid are released into the medium through the cell walls. The invention therefore helps to avoid the use of cell lysis, heating, extremes of pH, water immiscible solvents, and electrical fields used in prior art nucleic acid extraction methods. The present invention is particularly applicable to the separation of non-genomic nucleic acid, such as cellular vector DNA or RNA, self-replicating satellite nucleic acids or plasmid DNA, from genomic nucleic acids, such as host cell chromosomes and ribosomal RNA.

L6 ANSWER 2 OF 8 USPATFULL on STN  
AN 2004:203333 USPATFULL  
TI Chemical treatment of biological samples for nucleic acid extraction and kits therefor  
IN Lou, Jianrong, Mount Airy, MD, UNITED STATES  
Collis, Matthew P., Seven Valleys, PA, UNITED STATES  
Fort, Thomas L., Finksburg, MD, UNITED STATES  
PI US 2004157223 A1 20040812  
AI US 2003-419935 A1 20030422 (10)  
RLI Continuation-in-part of Ser. No. US 2003-359180, filed on 6 Feb 2003, PENDING  
DT Utility  
FS APPLICATION  
LREP PATTON BOGGS LLP, 8484 WESTPARK DRIVE, SUITE 900, MCLEAN, VA, 22102  
CLMN Number of Claims: 37  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 714

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition and method for the purification of nucleic acid are disclosed. The composition includes at least one alkaline agent and at least one **detergent**. The composition preferably also includes a suspension of paramagnetic particles and an acidic solution. The method involves the use of the composition with paramagnetic particles to extract nucleic acid from a biological sample.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 8 USPATFULL on STN  
AN 2004:203330 USPATFULL  
TI Chemical treatment of biological samples for nucleic acid extraction and kits therefor  
IN Lou, Jianrong, Mount Airy, MD, UNITED STATES  
Collis, Matthew P., Seven Valleys, PA, UNITED STATES  
Fort, Thomas L., Finksburg, MD, UNITED STATES  
PI US 2004157219 A1 20040812  
AI US 2003-359180 A1 20030206 (10)  
DT Utility  
FS APPLICATION  
LREP Laura D. Nammo, Patton Boggs LLP, 9th Floor, 8484 Westpark Drive, McLean, VA, 22102  
CLMN Number of Claims: 33  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 623

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition and method for the purification of nucleic acid are disclosed. The composition includes at least one alkaline agent and at least one **detergent**. The composition preferably also includes a suspension of paramagnetic particles and an acidic solution. The method involves the use of the composition with paramagnetic particles to extract nucleic acid from a biological sample.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 8 USPATFULL on STN  
 AN '2003:258639 USPATFULL  
 TI 207 human secreted proteins  
 IN Ni, Jian, Germantown, MD, UNITED STATES  
 Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
 LaFleur, David W., Washington, DC, UNITED STATES  
 Moore, Paul A., Germantown, MD, UNITED STATES  
 Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
 Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 Ruben, Steven M., Olney, MD, UNITED STATES  
 Soppet, Daniel R., Centreville, VA, UNITED STATES  
 Young, Paul E., Gaithersburg, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 Florence, Kimberly A., Rockville, MD, UNITED STATES  
 Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
 Florence, Charles, Rockville, MD, UNITED STATES  
 Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
 Li, Yi, Sunnyvale, CA, UNITED STATES  
 Kyaw, Hla, Frederick, MD, UNITED STATES  
 Fischer, Carrie L., Burke, VA, UNITED STATES  
 Ferrie, Ann M., Painted Post, NY, UNITED STATES  
 Fan, Ping, Potomac, MD, UNITED STATES  
 Feng, Ping, Gaithersburg, MD, UNITED STATES  
 Endress, Gregory A., Florence, MA, UNITED STATES  
 Dillon, Patrick J., Carlsbad, CA, UNITED STATES  
 Carter, Kenneth C., North Potomac, MD, UNITED STATES  
 Brewer, Laurie A., St. Paul, MN, UNITED STATES  
 Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
 Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
 Greene, John M., Gaithersburg, MD, UNITED STATES  
 PI US 2003181692 A1 20030925  
 AI US 2001-933767 A1 20010822 (9)  
 RLI Continuation-in-part of Ser. No. WO 2001-US5614, filed on 21 Feb 2001,  
 PENDING Continuation-in-part of Ser. No. US 1998-205258, filed on 4 Dec  
 1998, PENDING  
 PRAI US 2000-184836P 20000224 (60)  
 US 2000-193170P 20000329 (60)  
 US 1997-48885P 19970606 (60)  
 US 1997-49375P 19970606 (60)  
 US 1997-48881P 19970606 (60)  
 US 1997-48880P 19970606 (60)  
 US 1997-48896P 19970606 (60)  
 US 1997-49020P 19970606 (60)  
 US 1997-48876P 19970606 (60)  
 US 1997-48895P 19970606 (60)  
 US 1997-48884P 19970606 (60)  
 US 1997-48894P 19970606 (60)  
 US 1997-48971P 19970606 (60)  
 US 1997-48964P 19970606 (60)  
 US 1997-48882P 19970606 (60)  
 US 1997-48899P 19970606 (60)  
 US 1997-48893P 19970606 (60)  
 US 1997-48900P 19970606 (60)  
 US 1997-48901P 19970606 (60)  
 US 1997-48892P 19970606 (60)  
 US 1997-48915P 19970606 (60)  
 US 1997-49019P 19970606 (60)  
 US 1997-48970P 19970606 (60)  
 US 1997-48972P 19970606 (60)  
 US 1997-48916P 19970606 (60)  
 US 1997-49373P 19970606 (60)  
 US 1997-48875P 19970606 (60)  
 US 1997-49374P 19970606 (60)  
 US 1997-48917P 19970606 (60)  
 US 1997-48949P 19970606 (60)  
 US 1997-48974P 19970606 (60)  
 US 1997-48883P 19970606 (60)  
 US 1997-48897P 19970606 (60)

|                |               |
|----------------|---------------|
| US 1997-48898P | 19970606 (60) |
| US 1997-48962P | 19970606 (60) |
| US 1997-48963P | 19970606 (60) |
| US 1997-48877P | 19970606 (60) |
| US 1997-48878P | 19970606 (60) |
| US 1997-57645P | 19970905 (60) |
| US 1997-57642P | 19970905 (60) |
| US 1997-57668P | 19970905 (60) |
| US 1997-57635P | 19970905 (60) |
| US 1997-57627P | 19970905 (60) |
| US 1997-57667P | 19970905 (60) |
| US 1997-57666P | 19970905 (60) |
| US 1997-57764P | 19970905 (60) |
| US 1997-57643P | 19970905 (60) |
| US 1997-57769P | 19970905 (60) |
| US 1997-57763P | 19970905 (60) |
| US 1997-57650P | 19970905 (60) |
| US 1997-57584P | 19970905 (60) |
| US 1997-57647P | 19970905 (60) |
| US 1997-57661P | 19970905 (60) |
| US 1997-57662P | 19970905 (60) |
| US 1997-57646P | 19970905 (60) |
| US 1997-57654P | 19970905 (60) |
| US 1997-57651P | 19970905 (60) |
| US 1997-57644P | 19970905 (60) |
| US 1997-57765P | 19970905 (60) |
| US 1997-57762P | 19970905 (60) |
| US 1997-57775P | 19970905 (60) |
| US 1997-57648P | 19970905 (60) |
| US 1997-57774P | 19970905 (60) |
| US 1997-57649P | 19970905 (60) |
| US 1997-57770P | 19970905 (60) |
| US 1997-57771P | 19970905 (60) |
| US 1997-57761P | 19970905 (60) |
| US 1997-57760P | 19970905 (60) |
| US 1997-57776P | 19970905 (60) |
| US 1997-57778P | 19970905 (60) |
| US 1997-57629P | 19970905 (60) |
| US 1997-57628P | 19970905 (60) |
| US 1997-57777P | 19970905 (60) |
| US 1997-57634P | 19970905 (60) |
| US 1997-70923P | 19971218 (60) |
| US 1998-92921P | 19980715 (60) |
| US 1998-94657P | 19980730 (60) |
| US 1997-70923P | 19971218 (60) |
| US 1998-92921P | 19980715 (60) |
| US 1998-94657P | 19980730 (60) |

DT Utility

FS APPLICATION

LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 32746

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 8 USPATFULL on STN

AN 2003:78475 USPATFULL

TI Isolation of nucleic acids

IN Baker, Matthew John, Maidstone, UNITED KINGDOM  
PI US 2003054395 A1 20030320  
AI US 2002-232971 A1 20020830 (10)  
RLI Division of Ser. No. US 2000-736632, filed on 14 Dec 2000, PENDING  
Continuation-in-part of Ser. No. US 2000-586009, filed on 2 Jun 2000,  
PENDING Continuation of Ser. No. WO 1998-GB3602, filed on 4 Dec 1998,  
UNKNOWN  
PRAI GB 1997-25839 19971206  
GB 1998-15541 19980717  
DT Utility  
FS APPLICATION  
LREP DANN DORFMAN HERRELL & SKILLMAN, SUITE 720, 1601 MARKET STREET,  
PHILADELPHIA, PA, 19103-2307  
CLMN Number of Claims: 41  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for extracting nucleic acids from a biological material such as  
blood comprises contacting the mixture with a material at a pH such that  
the material is positively charged and will bind negatively charged  
nucleic acids and then eluting the nucleic acids at a pH when the said  
materials possess a neutral or negative charge to release the nucleic  
acids The nucleic acids can be removed under mildly alkaline conditions  
to the maintain integrity of the nucleic acids and to allow retrieval of  
the nucleic acids in reagents that are immediately compatible with  
either storage or analytical testing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 8 USPATFULL on STN  
AN 2003:10625 USPATFULL  
TI Isolation of nucleic acids  
IN Baker, Matthew John, Maidstone, UNITED KINGDOM  
PI US 2003008320 A1 20030109  
AI US 2002-232135 A1 20020829 (10)  
RLI Division of Ser. No. US 2000-736632, filed on 14 Dec 2000, PENDING  
Continuation-in-part of Ser. No. US 2000-586009, filed on 2 Jun 2000,  
PENDING Continuation of Ser. No. WO 1998-GB3602, filed on 4 Dec 1998,  
UNKNOWN  
PRAI GB 1997-25839 19971206  
GB 1998-15541 19980717  
DT Utility  
FS APPLICATION  
LREP DANN DORFMAN HERRELL & SKILLMAN, SUITE 720, 1601 MARKET STREET,  
PHILADELPHIA, PA, 19103-2307  
CLMN Number of Claims: 41  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for extracting nucleic acids from a biological material such as  
blood comprises contacting the mixture with a material at a pH such that  
the material is positively charged and will bind negatively charged  
nucleic acids and then eluting the nucleic acids at a pH when the said  
materials possess a neutral or negative charge to release the nucleic  
acids. The nucleic acids can be removed under mildly alkaline conditions  
to the maintain integrity of the nucleic acids and to allow retrieval of  
the nucleic acids in reagents that are immediately compatible with  
either storage or analytical testing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 8 USPATFULL on STN  
AN 2002:133962 USPATFULL  
TI Nucleic acid isolation method & kit  
IN Gundling, Gerard, Lake Forest, IL, UNITED STATES  
PI US 2002068821 A1 20020606

AI US 1999-470944 A1 19991222 (9)  
DT Utility  
FS APPLICATION  
LREP ABBOTT LABORATORIES, DEPT. 377 - AP6D-2, 100 ABBOTT PARK ROAD, ABBOTT  
PARK, IL, 60064-6050  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DRWN 2 Drawing Page(s)  
LN.CNT 930

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided herein is a **method** for **separating**  
**nucleic acid** from a test sample comprising the steps  
of contacting a test sample with a **metal oxide**  
support material and a binding buffer to form nucleic acid/**metal**  
**oxide** support material complexes, separating the complexes from  
the test sample; and eluting the nucleic acid from the **metal**  
**oxide** support material.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 8 USPATFULL on STN  
AN 2001:145374 USPATFULL  
TI Isolation of nucleic acids  
IN Baker, Matthew John, Maldstone, Great Britain  
PI US 2001018513 A1 20010830  
AI US 2000-736632 A1 20001214 (9)  
RLI Continuation-in-part of Ser. No. US 2000-586009, filed on 2 Jun 2000,  
PENDING A 371 of International Ser. No. WO 1998-GB3602, filed on 4 Dec  
1998, UNKNOWN  
PRAI GB 1997-25839 19971206  
GB 1998-15541 19980717  
DT Utility  
FS APPLICATION  
LREP DANN DORFMAN HERRELL & SKILLMAN, SUITE 720, 1601 MARKET STREET,  
PHILADELPHIA, PA, 19103-2307  
CLMN Number of Claims: 41  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for extracting nucleic acids from a biological material such as  
blood comprises contacting the mixture with a material at a pH such that  
the material is positively charged and will bind negatively charged  
nucleic acids and then eluting the nucleic acids at a pH when the said  
materials possess a neutral or negative charge to release the nucleic  
acids. The nucleic acids can be removed under mildly alkaline conditions  
to the maintain integrity of the nucleic acids and to allow retrieval of  
the nucleic acids in reagents that are immediately compatible with  
either storage or analytical testing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 113 bib abs 1-11

L13 ANSWER 1 OF 11 USPATFULL on STN

AN 2004:158537 USPATFULL

TI Method for generating multiple samples containing a predetermined amount of nucleic acid

IN Greenfield, I Lawrence, San Mateo, CA, UNITED STATES

Bost, Douglas A., San Mateo, CA, UNITED STATES

PI US 2004121336 A1 20040624

AI US 2002-325588 A1 20021220 (10)

DT Utility

FS APPLICATION

LREP SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402

CLMN Number of Claims: 54

ECL Exemplary Claim: 1

DRWN 20 Drawing Page(s)

LN.CNT 1817

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method is provided for binding a predetermined amount of a nucleic acid. The method involves contacting one or more sample solutions comprising a nucleic acid with a multiplicity of solid **substrate** binding units, where the solid **substrate** binding units bind the nucleic acid. Each binding unit has a predetermined binding capacity for the nucleic acid. An apparatus for binding one or more predetermined amounts of a nucleic acid is also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 2 OF 11 USPATFULL on STN

AN 2004:120515 USPATFULL

TI Nucleic acid archiving

IN Gerdes, John C., Denver, CO, UNITED STATES

Marmaro, Jeffery M., Aurora, CO, UNITED STATES

Ives, Jeffrey T., Arvada, CO, UNITED STATES

Roehl, Christopher A., Tampa, FL, UNITED STATES

PI US 2004091925 A1 20040513

AI US 2003-690359 A1 20031021 (10)

RLI Division of Ser. No. US 2001-944604, filed on 31 Aug 2001, PENDING

Continuation-in-part of Ser. No. US 1998-61757, filed on 16 Apr 1998,

GRANTED, Pat. No. US 6291166

PRAI US 1997-41999P 19970416 (60)

DT Utility

FS APPLICATION

LREP HOGAN & HARTSON LLP, ONE TABOR CENTER, SUITE 1500, 1200 SEVENTEENTH ST, DENVER, CO, 80202

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN 21 Drawing Page(s)

LN.CNT 1630

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a kit comprising a **substrate** having a **surface** coated with a solid phase matrix for nucleic acid manipulation. The solid phase matrix exhibits sufficient hydrophilicity and electropositivity to tightly bind the nucleic acids in a sample. The manipulations include nucleic acid (double or single stranded DNA and RNA) capture from high volume and/or low concentration specimens, buffer changes, washes, and volume reductions, and enable the interface of solid phase bound nucleic acid with enzyme, hybridization or **amplification** strategies. The tightly bound nucleic acid may be used, for example, in repeated analyses to confirm results or test additional genes in both research and commercial applications. Further, a method for virus extraction, purification, and solid phase **amplification** from large volume plasma specimens is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 3 OF 11 USPATFULL on STN  
AN 2004:31128 USPATFULL  
TI Methods and compositions for aptamers against anthrax  
IN Vivekananda, Jeevalatha, San Antonio, TX, UNITED STATES  
Kiel, Johnathan L., Universal, TX, UNITED STATES  
PI US 2004023266 A1 20040205  
AI US 2003-387314 A1 20030311 (10)  
RLI Division of Ser. No. US 2001-978753, filed on 15 Oct 2001, GRANTED, Pat.  
No. US 6569630 Continuation-in-part of Ser. No. US 2001-909492, filed on  
19 Jul 2001, ABANDONED Continuation-in-part of Ser. No. US 2000-608706,  
filed on 30 Jun 2000, GRANTED, Pat. No. US 6303316  
PRAI US 1999-142301P 19990702 (60)  
US 2000-199620P 20000425 (60)  
US 2001-291371P 20010515 (60)  
DT Utility  
FS APPLICATION  
LREP Blakely Sokoloff Taylor & Zafman, Seventh Floor, 12400 Wilshire  
Boulevard, Los Angeles, CA, 90025-1030  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Page(s)  
LN.CNT 2810  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The present invention concerns methods of preparing nucleic acid ligands  
against anthrax spores, compositions comprising anthrax specific nucleic  
acid ligands and methods of use of such ligands for detection and/or  
neutralization of anthrax spores.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 4 OF 11 USPATFULL on STN  
AN 2004:31127 USPATFULL  
TI Methods and compositions for nucleic acid ligands against Shiga toxin  
and/or Shiga-like toxin  
IN Vivekananda, Jeevalatha, San Antonio, TX, UNITED STATES  
Kiel, Johnathan L., Universal City, TX, UNITED STATES  
PI US 2004023265 A1 20040205  
AI US 2003-386778 A1 20030311 (10)  
RLI Continuation-in-part of Ser. No. US 2001-978753, filed on 15 Oct 2001,  
GRANTED, Pat. No. US 6569630 Continuation-in-part of Ser. No. US  
2001-909492, filed on 19 Jul 2001, ABANDONED Continuation-in-part of  
Ser. No. US 2000-608706, filed on 30 Jun 2000, GRANTED, Pat. No. US  
6303316  
PRAI US 2002-379904P 20020510 (60)  
US 1999-142301P 19990702 (60)  
US 2000-199620P 20000425 (60)  
DT Utility  
FS APPLICATION  
LREP Blakely Sokoloff Taylor & Zafman, Seventh Floor, 12400 Wilshire  
Boulevard, Los Angeles, CA, 90025-1030  
CLMN Number of Claims: 33  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1725  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The present invention concerns methods of preparing nucleic acid ligands  
against Shiga toxin and/or Shiga-like toxin, compositions comprising  
nucleic acid ligands that bind Shiga toxin and/or Shiga-like toxin,  
nucleic acid ligands comprising contiguous nucleotide sequences selected  
from SEQ ID NO:1 through SEQ ID NO:11 and methods of use of such ligands  
for detection and/or neutralization of Shiga toxin and/or Shiga-like  
toxin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 5 OF 11 USPATFULL on STN  
AN 2003:294256 USPATFULL  
TI Methods and compositions for biological sensors



IN Holwitt, Eric A., San Antonio, TX, UNITED STATES  
-Kiel, Johnathan L., Universal City, TX, UNITED STATES  
PI US 2003207271 A1 20031106  
AI US 2001-34127 A1 20011227 (10)  
RLI Continuation-in-part of Ser. No. US 2000-608706, filed on 30 Jun 2000,  
GRANTED, Pat. No. US 6303316  
PRAI US 2000-258518P 20001228 (60)  
DT Utility  
FS APPLICATION  
LREP Blakely, Sokoloff, Taylor & Zafman, Seventh Floor, 12400 Wilshire  
Boulevard, Los Angeles, CA, 90025-1030.  
CLMN Number of Claims: 22  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Page(s)  
LN.CNT 2777

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns compositions, apparatus and methods of use of recognition complexes, comprising biological sensors operably linked to an organic semiconductor. Multiple recognition complexes can be associated into a recognition complex system. The recognition complex system is of use to identify analytes, to separate biological sensors that bind to a target analyte from those that do not, to separate analytes that bind to a specific biological sensor from those that do not, and to prepare biological sensors with a high affinity for a particular analyte. The recognition complex system may be attached to a variety of **surfaces**, such as a chip, a flow cell, magnetic beads or non-magnetic beads. The biological sensor may be used for screening of, for example, a phage library, combinatorial chemistry library, plant tissue extract or animal tissue extract for inhibitors, activators or binding factors of bioactive molecules.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 6 OF 11 USPATFULL on STN  
AN 2003:282735 USPATFULL  
TI Method, kit and apparatus for the isolation of nucleic acids  
IN Kleiber, Jorg, Penzberg, GERMANY, FEDERAL REPUBLIC OF  
Markert-Hahn, Christine, Penzberg, GERMANY, FEDERAL REPUBLIC OF  
Harttig, Herbert, Altrip, GERMANY, FEDERAL REPUBLIC OF  
PI US 2003199078 A1 20031023  
AI US 2003-426641 A1 20030430 (10)  
RLI Continuation of Ser. No. US 2000-509750, filed on 5 Sep 2000, GRANTED,  
Pat. No. US 6562568 A 371 of International Ser. No. WO 1998-EP6196,  
filed on 29 Sep 1998, UNKNOWN  
PRAI DE 1997-19743518 19971001  
DT Utility  
FS APPLICATION  
LREP PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711  
CLMN Number of Claims: 43  
ECL Exemplary Claim: 1  
DRWN 6 Drawing Page(s)  
LN.CNT 707

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns a process for preparing biological samples for the subsequent detection of an analyte. In particular, the invention relates to a process for the isolation of a nucleic acid in a sample using a suspension of magnetic glass particles. In addition, kits and apparatuses containing magnetic glass particles for sample preparation are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 7 OF 11 USPATFULL on STN  
AN 2003:276682 USPATFULL  
TI Reversible association of nucleic acid with a carboxylated  
**substrate**  
IN Carey, Indira, Silver Spring, MD, UNITED STATES  
Heiland, Teri, New Market, MD, UNITED STATES

Smith, Anna, Gaithersburg, MD, UNITED STATES

Ray, Jill, Rockville, MD, UNITED STATES

PA Capitol Genomix, Inc. (U.S. corporation)

PI US 2003194707 A1 20031016

AI US 2002-114929 A1 20020403 (10)

DT Utility

FS APPLICATION

LREP VINSON & ELKINS, L.L.P., 1001 FANNIN STREET, 2300 FIRST CITY TOWER,  
HOUSTON, TX, 77002-6760

CLMN Number of Claims: 48

ECL Exemplary Claim: 1

DRWN 11 Drawing Page(s)

LN.CNT 1417

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to methods and compositions wherein nucleic acids are associated with a solid phase that comprises a carboxylated **substrate**. In specific embodiments, precipitation of the nucleic acids occurs in the absence of salt.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 8 OF 11 USPATFULL on STN

AN 2003:142930 USPATFULL

TI Methods and compositions for aptamers against anthrax

IN Vivekananda, Jeevalatha, San Antonio, TX, United States

Kiel, Johnathan L., Universal City, TX, United States

PA Conceptual MindWorks, Inc., San Antonio, TX, United States (U.S. corporation)

PI US 6569630 B1 20030527

AI US 2001-978753 20011015 (9)

RLI Continuation-in-part of Ser. No. US 2001-909492, filed on 19 Jul 2001, now abandoned Continuation-in-part of Ser. No. US 2000-608706, filed on 30 Jun 2000, now patented, Pat. No. US 6303316

PRAI US 2001-291371P 20010515 (60)

US 2000-199620P 20000425 (60)

US 1999-142301P 19990702 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Zitomer, Stephanie W.

LREP Nakashima, Richard A., Blakely, Sokoloff, Taylor & Zafman

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN 6 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 2700

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns methods of preparing nucleic acid ligands against anthrax spores, compositions comprising anthrax specific nucleic acid ligands and methods of use of such ligands for detection and/or neutralization of anthrax spores.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 11 USPATFULL on STN

AN 2003:129793 USPATFULL

TI Method, kit and apparatus comprising magnetic glass particles for the isolation of biomolecules

IN Kleiber, Jorg, Penzberg, GERMANY, FEDERAL REPUBLIC OF

Markert-Hahn, Christine, Penzberg, GERMANY, FEDERAL REPUBLIC OF

Harttig, Herbert, Altrip, GERMANY, FEDERAL REPUBLIC OF

PA Roche Diagnostics GmbH, Mannheim, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

PI US 6562568 B1 20030513

WO 9916781 19990408

AI US 2000-509750 20000905 (9)

WO 1998-EP6196 19980929

PRAI DE 1997-19743518 19971001

DT Utility

FS GRANTED

EXNAM Primary Examiner: Siew, Jeffrey  
LREP Doyle, Charles M., Jen, George C., Pennie & Edmonds LLP  
CLMN Number of Claims: 27  
ECL Exemplary Claim: 1  
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 637

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns a process for preparing biological samples for the subsequent detection of an analyte. In particular, the invention relates to a process for the isolation of a nucleic acid in a sample using a suspension of magnetic glass particles. In addition, kits and apparatuses containing magnetic glass particles for sample preparation are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 10 OF 11 USPATFULL on STN  
AN 2002:243056 USPATFULL  
TI Nucleic acid archiving  
IN Gerdes, John C., Denver, CO, UNITED STATES  
Marmaro, Jeffery M., Aurora, CO, UNITED STATES  
Ives, Jeffrey T., Arvada, CO, UNITED STATES  
Roehl, Christopher A., Tampa, FL, UNITED STATES  
PI US 2002132242 A1 20020919  
AI US 2001-944604 A1 20010831 (9)  
RLI Continuation-in-part of Ser. No. US 1998-61757, filed on 16 Apr 1998, GRANTED, Pat. No. US 6291166  
PRAI US 1997-41999P 19970416 (60)  
DT Utility  
FS APPLICATION  
LREP HOGAN & HARTSON LLP, ONE TABOR CENTER, SUITE 1500, 1200 SEVENTEENTH ST, DENVER, CO, 80202  
CLMN Number of Claims: 142  
ECL Exemplary Claim: 1  
DRWN 21 Drawing Page(s)  
LN.CNT 2097

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is directed to a process for tightly binding nucleic acid to solid phase and corresponding processes for the utilization thereof. Nucleic acid is bound to solid phase matrices exhibiting sufficient hydrophilicity and electropositivity to tightly bind the nucleic acids from a sample. These processes include nucleic acid (double or single stranded DNA and RNA) capture from high volume and/or low concentration specimens, buffer changes, washes, and volume reductions, and enable the interface of solid phase bound nucleic acid with enzyme, hybridization or **amplification** strategies. The tightly bound nucleic acid may be used, for example, in repeated analyses to confirm results or test additional genes in both research and commercial applications. Further, a method is described for virus extraction, purification, and solid phase **amplification** from large volume plasma specimens.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 11 OF 11 USPATFULL on STN  
AN 2001:178820 USPATFULL  
TI Organic semiconductor recognition complex and system  
IN Kiel, Johnathan L., Universal City, TX, United States  
Bruno, John G., San Antonio, TX, United States  
Parker, Jill E., Floresville, TX, United States  
Alls, John L., San Antonio, TX, United States  
Batishko, Charles R., Richland, WA, United States  
Holwitt, Eric A., San Antonio, TX, United States  
PA Conceptual Mind Works, Inc., San Antonio, TX, United States (U.S. corporation)  
PI US 6303316 B1 20011016  
AI US 2000-608706 20000630 (9)  
PRAI US 1999-142301P 19990702 (60)  
US 2000-199620P 20000425 (60)

DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Horlick, Kenneth R.  
LREP Blakely, Sokoloff, Taylor & Zafman  
CLMN Number of Claims: 62  
ECL Exemplary Claim: 1  
DRWN 31 Drawing Figure(s); 15 Drawing Page(s)  
LN.CNT 3322

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In a recognition complex system, nucleic acid ligands comprising random DNA sequences are operatively coupled to an organic semiconductor and distributed so as to form an array of recognition complexes. When an unknown chemical or biological analyte is applied to the array, the electrical and/or photochemical properties of one or more of the recognition complexes are altered upon binding of the nucleic acid ligand to the analyte. The degree to which the electrical and/or photochemical properties change is a function of the affinity of the nucleic acid ligand sequence for the analyte. The electrical and photochemical changes associated with the array, as a whole, can be used as a unique signature to identify the analyte. In certain embodiments, an iterative process of selection and **amplification** of nucleic acid ligands that bind to the analyte can be used to generate a new array with greater affinity and specificity for a target analyte, or to produce one or more nucleic acid ligands with high binding affinity for an analyte. The present invention also provides methods for preparing nucleic acid ligands that bind with high affinity to an analyte and using such nucleic acid ligands to neutralize the analyte.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.